

**EVALUATION REPORT OF
UNION CORRUGATING COMPANY
'29 GA. MASTERRIB PANEL'
OVER WOOD SUPPORTS**

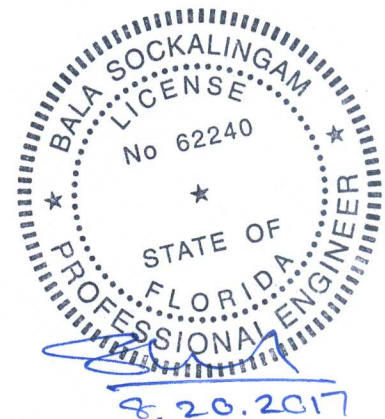
**FLORIDA BUILDING CODE 6TH EDITION (2017)
FLORIDA PRODUCT APPROVAL
FL 9555.4-R4
STRUCTURAL COMPONENTS
ROOF DECK**

**Prepared For:
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**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)**

**Report No. C2172-4
Date: 8.20.2017**



Manufacturer:	Union Corrugating Company
Product Name:	MasterRib Panel
Panel Description:	36" wide coverage with 3/4" high ribs at 9" o.c.
Materials:	Minimum 29 ga., 80 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755).
Support Description:	Nom. 2" x 2" (min) SPF, SYP or DF lumber. (Must be designed by others)
Slope:	1/2:12 or greater in accordance with FBC 2017 Section 1507.4.2
Design Pressure: (Based on testing)	+27.1 and -36.2 psf @ support spacing of 48" o.c. (@ 3 span condition with FS = 2.0)
Panel Attachment: At panel ends At intermediate	#9-15 or #10-14 x 1.5" long wood screws with washers @ 3.5"-5.5"-3.5" o.c. across panel width @ 9" o.c. across panel width
Sidelap Attachment:	1/4"-14 x 7/8" long SDS with washer @ 24" o.c.
Test Standards:	Panel assembly tested in accordance with ASTM E1592-01 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference' and FM 4470 Section 5.5 'Resistance to Foot Traffic'.
Test Equivalency:	The test procedure in ASTM E1592-01 comply with test procedure prescribed in ASTM E1592-05(2012). The test procedure in FM 4470 (1992) comply with test procedure prescribed in FM 4470 (2012).
Code Compliance:	The product described herein has demonstrated compliance with FBC 2017 Section 1507.4.
Product Limitations:	Design wind loads shall be determined for each project in accordance with FBC 2017 Section 1609 or ASCE 7-10 using allowable stress design. The maximum support spacing listed herein shall not be exceeded. The design pressure for reduced support spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on Union Corrugating load span table. This product is not approved for use in the High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to

FBC 2017 Section 1505 and current approved roofing materials directory for fire ratings of this product.

Supporting Documents: ASTM E1592 Test Report
ENCON Technology Inc.
C1514-1 (Test #2 & 3), Reporting Date 9/8/07

FM 4470 Test Report
ENCON Technology Inc.
C1583-2, Reporting Date 7/24/08

UNION CORRUGATING COMPANY

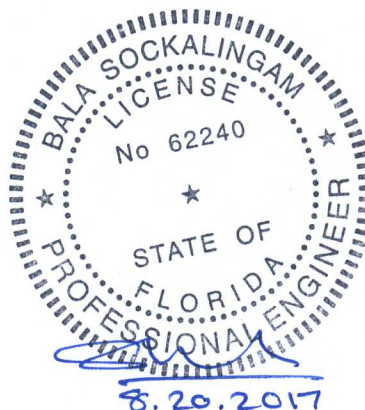
MasterRib Roof Panel

36" wide, 29 ga. (min) Steel Panel over Wood Supports

Span Condition	Loading Type	Allowable Load (psf)								
		Support Spacing (ft)								
		1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50	4.00
Two Span	Gravity	106.4	91.2	79.8	70.9	63.9	58.0	53.2	45.6	34.7
	Uplift	84.9	72.8	63.7	56.6	51.0	46.3	42.5	36.4	29.0
Three Span	Gravity	120.9	103.7	90.7	80.6	72.6	66.0	60.5	40.5	27.1
	Uplift	96.5	82.7	72.4	64.4	57.9	52.7	48.3	41.4	36.2
Four or More Spans	Gravity	116.4	99.8	87.3	77.6	69.8	63.5	58.2	43.0	28.8
	Uplift	92.9	79.6	69.7	61.9	55.7	50.7	46.5	39.8	33.8

Notes:

1. Allowable load for each condition is the smallest load calculated based on fastener capacity, panel strength and and deflection limit of L/180. Allowable loads are calculated for minimum 29 ga. panel.
2. The wind load is taken as 0.7 times the "component and cladding" loads for the purpose of determining deflection limit.
3. The panel allowable properties are determined from full scale ASTM E1592 tests at 4' 0" span
4. The panel fasteners are #9-16 or 10-14 x 1-1/2" long wood screws with washers. Fastener spacing across panel width is 9.0" o.c. in the interior supports and 3.5"-5.5"-3.5" o.c. at panel ends.
5. Sidelap fasteners are 1/4"-14 x 7/8" long self drilling screws with washers at 24" o.c.
6. Wood supports are minimum 2" x 2" lumber. All supports must be designed to resist all loads imposed on the panel.
7. Minimum bearing width of support is 1.5".
8. The panels may span from eave to ridge or rake to rake.
9. Panels must be installed as per Evaluation Report FL 9555.4 and Union current installation procedure.



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